

C-745-M Cylinder Storage Yard

The C-745-M cylinder storage yard is located within the southeast quadrant of the plant immediately north of the C-745-S cylinder storage yard. The C-745-M cylinder storage yard borders Patrol Road 5 on the west, Alabama Avenue on the north, C-745-K (South) on the east and Alaska Avenue on the south. Access to the storage yard is primarily available from the north and east sides of the yard. The cylinder storage yard consists of approximately 119,000 square feet of gravel storage area. There are currently no cylinders stored on C-745-M cylinder storage yard. When populated cylinder rows will run south to north with cylinder positions running west to east. The design for the new C-745-M cylinder storage yard has previously been completed. This yard has a sub-surface storm water drainage system consisting of 4-inch perforated piping. Water drains to drain lines on either the east or west side of the yard. The east drain line is shared with the southern section of C-745-K yard. Both drain lines start as 12-inch lines and increase to 15-inch lines before connecting to the new main line at Alabama Avenue. Water from this main line ultimately discharges to KPDES Outfall 017.

The security lighting for the construction of K, L and M cylinder storage yards is distributed from a lighting power panel located in the northeast corner of the southern section of C-745-K cylinder storage yard. The circuit for the new power panel is supplied from a 112.kVA pad-mount transformer located adjacent to the new power panel. The 13.8 kV feeder in that area supplies the new transformer. Security lighting for C-745-L (North) is complete and three lights in C-745-M and C-745-K (South) along Alabama Avenue are installed. Eight existing security lights that remain for C-745-M cylinder storage yard and C-745-K (South) cylinder storage yard are supplied from a 2400/480V lighting transformer that is fed from the 2400V circuit.

C-745-N Cylinder Storage Yard

The C-745-N cylinder storage yard is located in the southeast quadrant of the plant immediately south of the C-745-D cylinder storage yard. The cylinder storage yard borders Alabama Avenue to the north, C-745-L (South) to the west, C-745-P cylinder storage yard to the east and USEC C-745-U cylinder storage yard to the south. Access to the yard is available primarily from the north side of the yard. Between C-745-N and C-745-U cylinder storage yards lies an out of service railroad spur. The cylinder storage yard consists of approximately 78,000 square feet of gravel cylinder storage area and currently stores approximately 1,500 cylinders. Cylinder rows in this yard run south to north with cylinder positions running east to west. The existing storm water drainage system consists of a sub-surface system of 4-inch perforated piping. The system drains water to an 18-inch drain line that starts at the southern end of the yard and runs north to a main line on the north side of Alabama Avenue. This line begins as a 24-inch line and increases step-wise through 30-inch, 36-inch, 48-inch, and finally 54-inch as it flows east under USEC C-745-Q cylinder storage yard. The line continues east outside the Plant security fence and discharges into a large drainage ditch that flows through USEC's KPDES Outfall 013. The electrical service for the cylinder yard consists of security lighting that is supplied from a pad-mount, lighting transformer that is located on the north side of the yard. This transformer is a 2400/480V-transformer fed by an underground 2400V B-2 circuit which supplies lighting to several adjacent cylinder yards.